METHOD AND APPARATUS FOR PROVIDING QUERY-LEVEL SECURITY IN A DATABASE SYSTEM

ABSTRACT

One embodiment of the present invention provides a system that facilitates using query signatures to provide security for a database system. During operation, the database system receives a query. Next, the system parses the query to determine a signature for the query. This signature specifies a structure based on operators for the query and is independent of the value of literals in the query. The system then determines if the signature can be found in a signature cache which contains valid query signatures. If so, the system processes the query.